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PTO/SB/01 (6-95) (modified)

OMB 0651-0032

Approved for use through 10/31/96  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE0010/PTO  
Rev. 6/95U.S. Department of Commerce  
Patent and Trademark Office

**DECLARATION FOR  
UTILITY OR DESIGN  
PATENT APPLICATION**

Declaration Submitted with Initial Filing      OR       Declaration Submitted after Initial Filing

Attorney Docket Number

First Named Inventor      Gerard McGOOGAN

*COMPLETE IF KNOWN*

Application Number

Filing Date      May 22, 1998

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVEMENTS IN INTRINSICALLY SAFE CIRCUITS

the specification of which

(Title of the Invention)

 is attached hereto

OR

was filed on (MM/DD/YYYY) 05 / 22 / 1998 as United States Application Number or PCT International Application Number \_\_\_\_\_ and was amended on (MM/DD/YYYY) \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations. § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 385(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	Certified Copy Attached? NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental sheet attached hereto.

**DECLARATION**

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I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number	Name	Registration Number
David L. Hayes	34,838		
Albert C. Smith	20,355		
Edward J. Radlo	26,793		
Greg T. Sueoka	33,800		
Stuart P. Meyer	33,426		

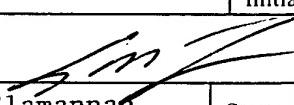
Additional attorney(s) and/or agent(s) named on a supplemental sheet attached hereto.

Please direct all correspondence to:

**Greg T. Sueoka**  
**Fenwick & West LLP**  
**Two Palo Alto Square, Suite 700**  
**Palo Alto, CA 94306**  
**U.S.A.**

Telephone	(415) 858-7194	Fax	(415) 494-1417
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Name of Sole or First Inventor:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor							
Given Name	Gerard		Middle Initial		Family Name	McGOOGAN		Suffix e.g. Jr.	--
Inventor's Signature						Date	3/Aug/98		
Residence: City	Slamannan		State	Stirling-shire	Country	United Kingdom	Citizenship	United Kingdom	
Mailing Address	Woodlands House, Avonbridge Road								
Mailing Address									
City	Slamannan		State	Stirling-shire	Zip	FK1 3EU	Country	United Kingdom	
<input type="checkbox"/> Additional inventors are being named on supplemental sheet(s) attached hereto									

AUG 17 1993

PTO/SB/10 (6-95) (modified)

Approved for use through 07/31/96. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(c))—SMALL BUSINESS CONCERN**
Docket Number (Optional)  
**3454**Applicant or Patentee: **Gerard McGoogan**Application or Patent No.: **09/083,769**Filing Date or Issue Date: **May 22, 1998**Title: **Improvements in Intrinsically Safe Circuits**

I hereby declare that I am

- the owner of the small business concern identified below:  
 an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN **Diagnostic Instruments Limited**ADDRESS OF SMALL BUSINESS CONCERN **2 Michaelson Square, Kirkton Campus****Livingston, West Lothian EH54 7DP UNITED KINGDOM**

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- the specification filed herewith with title as listed above.  
 the application identified above.  
 the parent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention must file separate verified statements averring to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

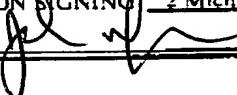
Each such person, concern or organization having any rights in the invention is listed below:

- No such person, concern, or organization exists.  
 Each such person, concern or organization is listed below:

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING **JOHN MCGLOONE**TITLE OF PERSON IF OTHER THAN OWNER **DIVISION DIRECTOR**ADDRESS OF PERSON SIGNING **2 Michaelson Square, Kirkton Campus, Livingston, West Lothian EH54 7DP U.K.**SIGNATURE DATE **31 JULY 1998**

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